Abstract

Last decade has seen the discovery of many exotic charmonium-like states. X(3872) is the poster boy of such exotic states. The nature of X(3872) is still unknown. Precise measurement of $R_{3\pi/2\pi}$ = B(X(3872)→J/ $\pi+\pi-\pi0$)/ B(X(3872)→J= $\pi+\pi-$) is crucial to understand the nature of X(3872) state. We performed Monte Carlo study for B+- → (J= !)K decay at Belle detector. We estimated the reconstruction efficiency for B → X(3872)K and B → X(3915)K decay modes. Based on that we expect 35 (170) signal events for X(3872) → J= ! (X(3915) → J= !) from the (4S) data collected by Belle detector at KEKB asymmetric electron-positron collider.